



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

12/14/2009

Daly, Crowley & Mofford, LLP
c/o Portfoliop
P.O. Box 52050
Minneapolis, MN 55402

EXAMINER

MADAMBA, GLENFORD J

ART UNIT

PAPER NUMBER

2451

DATE MAILED: 12/14/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,333	12/29/2003	Karuppih Kandasamy Ettikan	INTEL-018PUS	8205
TITLE OF INVENTION: ANYCAST ADDRESSING FOR INTERNET PROTOCOL VERSION SIX				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/15/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE** OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
 or Fax **(571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 12/14/2009

Daly, Crowley & Mofford, LLP
 c/o PortfolioIP
 P.O. Box 52050
 Minneapolis, MN 55402

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
107/49,333	12/29/2003	Karuppiah Kandasamy Ettikan	INTEL-018PUS	8205
TITLE OF INVENTION: ANYCAST ADDRESSING FOR INTERNET PROTOCOL VERSION SIX				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/15/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
MADAMBA, GLENFORD J	2451	709-238000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____
 Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/749,333

12/29/2003

Karupiah Kandasamy Ettikan

INTEL-018PUS

8205

7590

12/14/2009

Daly, Crowley & Mofford, LLP
c/o PortfoliOP
P.O. Box 52050
Minneapolis, MN 55402

EXAMINER

MADAMBA, GLENFORD J

ART UNIT

PAPER NUMBER

2451

DATE MAILED: 12/14/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1517 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1517 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability**Application No.**

10/749,333

Applicant(s)ETTIKAN, KARUPPIAH
KANDASAMY**Examiner**

Glenford Madamba

Art Unit

2451

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 31 July 2009.
2. ☒ The allowed claim(s) is/are 1-32.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 8/27/2009
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

/Hassan Phillips/
Primary Examiner, Art Unit 2451

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Anthony T. Moosey (Reg. # 55,773) on 11/18/2009.

3. The application has been amended as follows:

In the Claims:

Please AMEND claim 1 as follows:

Claim 1. A computer readable storage medium on which is stored executable code, comprising:

a network address comprising:

prefix bits encoded to identify the network address as a selected one ~~of~~ from a group consisting of a unicast network address, an anycast network address, and both the unicast and the anycast network address;

anycast scope identifier bits to identify an anycast scope, wherein the anycast scope corresponds to a network scope within which the anycast network address is recognized; and

anycast group identifier bits to identify an anycast group having one or more anycast members, wherein each of the one or more anycast members is associated with the same anycast network address; and

wherein the code when executed performs lookups associated with the network address in one or more routing tables.

Please AMEND claim 6 as follows:

Claim 6. A network router including one or more routing tables having one or more entries, the entries comprising:

prefix bits encoded by a computer processor to identify the network address as a selected one ~~of~~ from a group consisting of a unicast network address, an anycast network address, and both the unicast and the anycast network address;

anycast scope identifier bits to identify an anycast scope, wherein the anycast scope corresponds to a network scope within which the anycast network address is recognized; and

anycast group identifier bits to identify an anycast group having one or more anycast members, wherein each of the one or more anycast members is associated with the same anycast network address; and

wherein the network router performs lookups associated with the network address in the one or more routing tables.

Please AMEND claim 11 as follows:

Claim 11. A method of routing a network packet having a network address, comprising:

receiving the network packet; and

decoding by a computer processor prefix bits associated with the network address to identify the network address as being a selected one ~~of~~ from a group consisting of a unicast network address ~~and, an anycast network address, and both the unicast and the anycast address;~~
and

performing lookups associated with the network address in one or more routing tables.

Please AMEND claim 13 as follows:

Claim 13. The method of Claim 11, further including:

~~performing lookups associated with the network address in one or more routing tables;~~

identifying an output port from the successive lookups;

sending, if the output port is identified and if the network address is the unicast network address, the network packet to the identified output port; and

sending, if the output port is identified and if the network address is the anycast network address, the network packet to the identified output port.

Please AMEND claim 17 as follows:

Claim 17. A method of generating a routing table associated with a network packet having a network address, comprising:

receiving the network packet;

decoding by a computer processor prefix bits associated with the network address to identify the network address as being a selected one ~~of~~ from a group consisting of a unicast network address ~~and~~, an anycast network address, and both the unicast and the anycast address;

performing lookups associated with selected ones of the bits of the network address in one or more routing tables to identify a matching route stored in the one or more routing tables;

changing, if the matching route is identified and if the matching route corresponds to the unicast network address and if the network address is the anycast network address, the prefix bits associated with the matching route stored in the one or more routing tables to indicate that the matching route corresponds to both the unicast network address and the anycast network address; and

changing, if the matching route is identified and if the matching route corresponds to an anycast network address and if the network address is the unicast network address, the prefix bits associated with the matching route stored in the one or more routing tables to indicate that the matching route corresponds to both the unicast network address and the anycast network address.

Please AMEND claim 22 as follows:

Claim 22. A computer readable medium having computer readable code stored thereon for routing a network packet having a network address, comprising:

instruction for receiving the network packet; ~~and~~

instructions for decoding prefix bits associated with the network address to identify the network address as being a selected one of ~~of~~ from a group consisting of a unicast network address ~~and, an anycast network address, and both the unicast and the anycast address; and~~

instructions for performing lookups associated with the network address in one or more routing tables.

Please AMEND claim 24 as follows:

Claim 24. The computer readable medium of Claim 22, further including:

~~instructions for performing lookups associated with the network address in one or more routing tables;~~

instructions for identifying an output port from the successive lookups; instruction for deciding if the output port is identified and if the network address is the unicast network address, and in response thereto, instructions for sending the network packet to the identified output port; and

instruction for deciding if the output port is identified and if the network address is the anycast network address, and in response thereto, instructions for sending the network packet to the identified output port.

Please AMEND claim 28 as follows:

Claim 28. A computer readable storage medium having computer readable code stored thereon for generating a routing table associated with a network packet having a network address, comprising:

instructions for receiving the network packet;

instructions stored on the computer readable medium for decoding prefix bits associated with the network address to identify the network address as being a selected one ~~of~~ from a group consisting of a unicast network address ~~and~~, an anycast network address, and both the unicast and the anycast address;

instructions for performing lookups associated with selected ones of the bits of the network address in one or more routing tables to identify a matching route stored in the one or more routing tables;

instructions for deciding if the matching route is identified and if the matching route corresponds to the unicast network address and if the network address is the anycast network address, and in response thereto for changing the prefix bits associated with the matching route stored in the one or more routing tables to indicate that the matching route corresponds to both the unicast network address and the anycast network address; and

instructions for deciding if the matching route is identified and if the matching route corresponds to the anycast network address and if the network address is the unicast network address, and in response thereto for changing the prefix bits associated with the matching route stored in the one or more routing tables to indicate that the matching route corresponds to both the unicast network address and the anycast network address.

Allowable Subject Matter

4. The numbering of Original Claims 1-32 is maintained. No original Claims have been cancelled.
5. The following is an examiner's statement of reasons for allowance:

The Office has deemed Applicant's latest set of claim amendments and corresponding arguments persuasive to overcome the current rejection in view of the applied prior art references, with respect to the following features:

A computer readable medium on which is stored executable code, comprising:

a network address comprising:

prefix bits encoded to identify the network address as a selected one of from a group consisting of a unicast network address, an anycast network address, and both the unicast and the anycast network address;

anycast scope identifier bits to identify an anycast scope, wherein the anycast scope corresponds to a network scope within which the anycast network address is recognized; and

anycast group identifier bits to identify an anycast group having one or more anycast members, wherein each of the one or more anycast members is associated with the same anycast network address; and

wherein the code when executed performs lookups associated with the network address in one or more routing tables.

Specifically, Applicants argument that the present claims require “a network address comprising prefix bits encoded to identify the network address as a selected one from a group consisting of a unicast network address, an anycast network address, and both the unicast and the anycast network address” – and that this is not expressly disclosed by any of the prior art reference(s) applied in the rejection of the claims is found to be persuasive.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenford Madamba whose telephone number is 571-272- 7989. The examiner can normally be reached on Monday-Friday 7:00AM-4: 30PM, first Fridays OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, .contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hassan Phillips/

Primary Examiner, Art Unit 2451